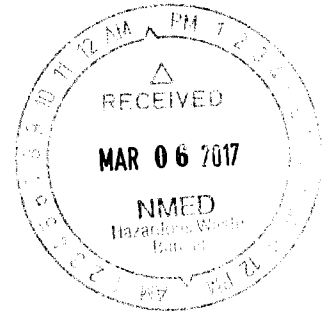




ENTERED

**Department of Energy**  
Carlsbad Field Office  
P. O. Box 3090  
Carlsbad, New Mexico 88221  
**MAR 02 2017**



Mr. John E. Kieling, Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303

**Subject:** Transmittal of the Hazardous Waste Facility Permit Attachment C6 Audit Plan and Notification Assigned Auditors for CBFO Recertification Audit A-17-21 of the ORNL/CCP

Dear Mr. Kieling:

This letter transmits the audit plan for Carlsbad Field Office (CBFO) Recertification Audit A-17-21 of the Oak Ridge National Laboratory (ORNL) Central Characterization Program (CCP) for transuranic waste characterization activities. The audit will be conducted as required by the Waste Isolation Pilot Plant Hazardous Waste Facility Permit at the ORNL in Oak Ridge, TN, and at the Skeen-Whitlock Building in Carlsbad, NM, April 18 – 20, 2017. The audit plan identifies the audit team members, as required by the Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Should you have any questions concerning this notification, please contact Mr. Martin P. Navarrete, Senior Quality Assurance Specialist, at (575) 234-7483.

Sincerely,

Todd Shrader, Manager  
Carlsbad Field Office

Enclosure



Mr. John E. Kieling

-2-

MAR 02 2017

cc: w/enclosure

S. Ross, EM-3.113	*ED
J. Carswell, CBFO	ED
M. Brown, CBFO	ED
J. R. Stroble, CBFO	ED
G. Basabilvazo, CBFO	ED
M. Navarrete, CBFO	ED
D. Miehl, CBFO	ED
M. Stapleton, CBFO	ED
M. Fineran, CBFO	ED
G. Birge, CBFO	ED
N. Castaneda, CBFO	ED
T. Carver, CBFO	ED
R. Maestas, NMED	ED
D. Biswell, NMED	ED
V. Daub, CTAC	ED
P. Martinez, CTAC	ED
M. Leroch, CTAC	ED
C. Castillo, CTAC	ED
K. Chester, CTAC	ED
D. Harvill, CTAC	ED
G. White, CTAC	ED
A. Urquidez, RES	ED

CBFO QA File

CBFO M&RC

\*ED denotes electronic distribution

**CARLSBAD FIELD OFFICE  
AUDIT PLAN**

**Audit Number:** A-17-21

**Organization to be Audited:** Oak Ridge National Laboratory (ORNL), Nuclear Waste Partnership LLC (NWP) Central Characterization Program (CCP)

**Organizations to be Notified:** ORNL  
NWP  
New Mexico Environment Department (NMED)  
Defense Nuclear Facilities Safety Board  
U.S. Environmental Protection Agency

**Date and Location:** April 18 – April 20, 2017  
Oak Ridge, TN, and Carlsbad, NM

**Audit Team:**

Martin Navarrete	Carlsbad Field Office (CBFO) Office of Quality Assurance Representative
Katie Chester	Audit Team Leader, CBFO Technical Assistance Contractor (CTAC)
Charlie Riggs	Auditor, CTAC (Program Status)
Kathy Hood*	Auditor, CTAC (C6 QA – Records, Training)
Jim Schuetz*	Auditor, CTAC (C6 QA – NCRs, WWIS/WDS)
Ricardo Chavez	Auditor, CTAC (AK)
Cindi Castillo	Auditor, CTAC (RTR)
Matt Leroch	Auditor, CTAC (NDA/DTC)
John Fernandez	Auditor, CTAC (VE)
Dustin Stegman	Auditor-in-Training, CTAC (RTR)
Joe Lopez*	Auditor-in-Training, CTAC (C6 QA)
Randy Fitzgerald	Technical Specialist, CTAC (AK)
Dick Blauvelt	Technical Specialist, CTAC (AK)
Prissy Yanez	Technical Specialist, CTAC (RTR)
Rhett Bradford	Technical Specialist, CTAC (VE)
Jim Vernon	Auditor/Technical Specialist, CTAC (PL V&V)
Jim Oliver	Technical Specialist, CTAC (NDA/DTC)
B.J. Verret	Auditor/Technical Specialist, CTAC (FGA & Container Management)

\* Indicates team members working at the Skeen-Whitlock Building in Carlsbad, NM.

**Audit Scope:**

The audit team will evaluate the continued adequacy, implementation, and effectiveness of the technical and quality assurance (QA) activities performed by NWP/CCP at ORNL for characterization of contact-handled (CH) Summary Category Groups (SCGs) S3000 solids, S4000 soils/gravel, and S5000 debris wastes, and remote-handled (RH) SCG S5000 debris wastes. The audit team will also verify that a technical review of the generator site's processes has been

performed and that any issues identified during the technical review have been resolved per DOE/WIPP-16-3564, *Generator Site Technical Review Procedure*.

A list of the equipment and processes to be evaluated is attached to this plan (Attachment 1).

**Governing Documents/Requirements:**

Evaluation of the overall program adequacy and effectiveness of ORNL/CCP documents will be based on the current revisions of the following documents:

- *Quality Assurance Program Document*, DOE/CBFO-94-1012
- *Waste Isolation Pilot Plant Hazardous Waste Facility Permit NM4890139088-TSDF*
- *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*, DOE/WIPP-02-3122
- *Remote-Handled TRU Waste Characterization Program Implementation Plan*, DOE/WIPP-02-3214

Programmatic and technical checklists will be developed from the current revisions of the following documents:

- *CCP Transuranic Waste Characterization Quality Assurance Project Plan*, CCP-PO-001
- *CCP Transuranic Waste Certification Plan*, CCP-PO-002
- *CCP/TRU Waste Processing Center/Oak Ridge National Laboratory Interface Document*, CCP-PO-027
- *CCP Interface Document Preparation*, CCP-PO-043
- Related CCP QA and technical implementing procedures

**Activities to be Audited:**

**General**

- Results of Previous Audits
- Changes in Programs or Operations
- New Programs or Activities Being Implemented
- Changes in Key Personnel

**C6-1 through C6-4 and general QA program elements as applicable**

- Nonconformances
- Personnel Qualification and Training
- Measuring and Test Equipment (M&TE)
- Software Version Installation
- Records

**Technical Activities**

- Project-level Data Validation and Verification (PLV&V)
- Acceptable Knowledge (AK), including waste certification
- Real-time Radiography (RTR)
- Visual Examination (VE)
- Nondestructive Assay (NDA), including Performance Demonstration Program
- Dose-to-Curie (DTC)
- Flammable Gas Analysis (FGA)
- Container Management
- WIPP Waste Information System/Waste Data System (WWIS/WDS)

**Schedule of Audit Activities:**

A pre-audit conference is scheduled for Tuesday, April 18, 2017, at 8:30 a.m.

Audit team caucuses will be held at 3:30 p.m. on Tuesday and Wednesday, April 18 and 19, and at 1:30 p.m. on Thursday, April 20, 2017.

If needed, the audit team leader will conduct a management briefing with appropriate ORNL and NWP/CCP management at 8:30 a.m. on Wednesday and Thursday, April 19 and 20, 2017.

A post-audit conference is scheduled for Thursday, April 20, 2017, at 2:30 p.m.

All meetings will take place at designated locations at the ORNL/TRU Waste Processing Center (TWPC) in Oak Ridge, TN, and at the Skeen-Whitlock Building in Carlsbad, NM.

Prepared by: Katie Chester  
Katie Chester  
CTAC Audit Team Leader

Date: 3/2/2017

Concurrence: Michael R. Brown  
Michael R. Brown, Director  
CBFO Office of Quality Assurance

Date: 3/2/2017

WIPP #	Process/Equipment Description	Applicable to the Following Waste Streams/Groups of Waste Streams	Currently Approved by NMED	Currently Approved by EPA
<b>PROCESSES OR EQUIPMENT TO BE EVALUATED FOR RECERTIFICATION</b>				
16IQ1	Nondestructive Assay IQ3 Procedures – CCP-TP-046, CCP-TP-047, and CCP-TP-048	Solids (S3000) Soils (S4000) Debris (S5000)	N/A	YES
16MILCC2	Mobile ISOCs Large Container Counter (MILCC) Procedures – CCP-TP-076, CCP-TP-077, and CCP-TP-048	Solids (S3000) Soils (S4000) Debris (S5000)	N/A	YES
16DTC1	Dose-to-Curie (Radiological Characterization) Procedure – CCP-TP-504	Debris (S5000) – RH	N/A	YES
16RR1	Real-Time Radiography Mobile Characterization System (MCS) RTR #6 Procedures – CCP-TP-053 and CCP-TP-165	Solids (S3000) Soils (S4000) Debris (S5000)	YES	YES
16VE1	Visual Examination Procedure – CCP-TP-113	Soils (S4000) Debris (S5000)	YES	YES
16RHVE1	Visual Examination Procedure – CCP-TP-500	Debris (S5000) – RH	YES	YES
N/A	Acceptable Knowledge	Solids (S3000) Soils (S4000) Debris (S5000) Debris (S5000) – RH	YES	YES

<b>WIPP #</b>	<b>Process/Equipment Description</b>	<b>Applicable to the Following Waste Streams/Groups of Waste Streams</b>	<b>Currently Approved by NMED</b>	<b>Currently Approved by EPA</b>
N/A	Data Verification and Validation	Solids (S3000) Soils (S4000) Debris (S5000) Debris (S5000) – RH	YES	YES
N/A	Quality Assurance	Solids (S3000) Soils (S4000) Debris (S5000) Debris (S5000) – RH	YES	YES
N/A	WIPP Waste Information System (WWIS)/Waste Data System (WDS)	Solids (S3000) Soils (S4000) Debris (S5000) Debris (S5000) – RH	YES	YES
<b>DEACTIVATED EQUIPMENT</b>				
16RR2	Real-Time Radiography Mobile Characterization System Deactivated September 2015 MCS RTR #7	N/A	N/A	N/A